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(21) International Application Number: PCT/US00/04374 (22) International Filing Date: 18 February 2000 (18.02.00) (30) Priority Data: 60/120,038 19 February 1999 (19.02.99) US (71) Applicant (for all designated States except US): ENDOSCOPIC TECHNOLOGIES, INC. [US/US]; Suite 100, 4115 Blackhawk Plaza Circle, Danville, CA 94506 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): BERTOLERO, Arthur, A. [US/US]; 155 Sunhaven Road, Danville, CA 94506 (US). BERTOLERO, Raymond, S. [US/US]; 130 Windover, Danville, CA 94506 (US). RIEBMAN, Jerome, B. [US/US]; 1291 Brookings Lane, Sunnyvale, CA 94087 (US). (74) Agents: MORAN, Tom, M.; Cooley Godward LLP, Five Palo Alto Square, 3000 El Camino Real, Palo Alto, CA 94306-2155 (US) et al.		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>Without international search report and to be republished upon receipt of that report.</i>
(54) Title: MULTICHANNEL CATHETER WITH OBTURATOR		
(57) Abstract <p>This invention is a multichannel catheter for extracorporeal circulation of blood to a patient undergoing cardiovascular treatments or surgery. The catheter has three independent channels, an obturator and an expandable balloon at one end of the catheter. The first channel is the largest and is of a size that allows for delivery of blood through outlet parts in the wall of the first channel to a patient in an amount sufficient to maintain the patient's metabolism and perfusion throughout the treatment or surgery. The obturator is longitudinally insertable into the first channel. A second channel, smaller than the first, is integrated into the wall of the first channel, and is suitable for delivering a biologically active fluid (e.g., for cardioplegia) to the heart and/or venting the left heart. A third channel, also smaller than the first, is integrated into the wall of the first channel, and suitable for delivering a fluid to the balloon for its expansion when positioned in the ascending aorta to occlude the flow of blood to the heart. The catheter provides an improved means of preparing for or performing cardiovascular surgery on a patient using a cardiopulmonary machine for extracorporeal circulation of blood. The catheter is particularly useful for cardiac surgery.</p>		